

Table: Typical Properties of acrylonitrile-butadiene-styrene (ABS) - (Metric Units)

Record No. 29

material family
acrylonitrile-butadiene-styrene (ABS) / polyurethane thermoplastic elastomer (TPU)
material name / MDS
Overview - ABS/Polyurethane Alloy
density (g/cm <sup>3</sup> )
1.09–1.12
linear mold shrinkage (cm/cm)
0.006
melt flow index (g/10 min)
11–26
elongation @ yield (%)
16–50
flexural modulus (GPa)
flexural strength at yield (MPa)
hardness, Rockwell
Izod impact, notched (J/cm)
3.74–13.9 (LT); 999
tensile modulus (GPa)
0.0827–0.745
tensile strength at yield (MPa)
12–35.2
elec. resistivity (ohm cm)
CTE, linear @ 20 °C (10 <sup>-6</sup> /°C)
88–104
deflection temp. at 0.46 Mpa (°C)
57–78